Datasheet for ABIN3126029

TRIM32 Protein (AA 1-655) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TRIM32
Protein Characteristics:	AA 1-655
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM32 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAAAAAASHL NLDALREVLE CPICMESFTE EQLRPKLLHC GHTICRQCLE KLLASSINGV RCPFCSKITR ITSLTQLTDN LTVLKIIDTA GLSEAVGLLM CRGCGRRLPR QFCRSCGVVL CEPCREADHQ PPGHCTLPVK EAAEERRRDF GEKLTRLREL TGELQRRKAA LEGVSRDLQA RYKAVLQEYG HEERRIQEEL ARSRKFFTGS LAEVEKSNSQ VVEEQSYLLN IAEVQAVSRC DYFLAKIKQA DVALLEETAD EEEPELTASL PRELTLQDVE LLKVGHVGPL QIGQAVKKPR TVNMEDSWAG EEGAASSASA SVTFREMDMS PEEVAPSPRA SPAKQRSSEA ASGIQQCLFL KKMGAKGSTP GMFNLPVSLY VTSQSEVLVA DRGNYRIQVF NRKGFLKEIR RSPSGIDSFV LSFLGADLPN LTPLSVAMNC HGLIGVTDSY DNSLKVYTMD GHCVACHRSQ LSKPWGITAL PSGQFVVTDV EGGKLWCFTV DRGAGVVKYS CLCSAVRPKF VTCDAEGTVY FTQGLGLNVE NRQNEHHLEG GFSIGSVGPD GQLGRQISHF FSENEDFRCI AGMCVDARGD LIVADSSRKE ILHFPKGGGY SVLIREGLTC PVGIALTPKG QLLVLDCWDH CVKIYSYHLR RYSTP

Product Details

	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. Expression System: • ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. • During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Product Details

Grade:	custom-made

Target Details

Target:	TRIM32
Alternative Name:	Trim32 (TRIM32 Products)
Background:	E3 ubiquitin-protein ligase TRIM32 (EC 2.3.2.27) (RING-type E3 ubiquitin transferase TRIM32) (Tripartite motif-containing protein 32),FUNCTION: E3 ubiquitin ligase that plays a role in various biological processes including neural stem cell differentiation, innate immunity, inflammatory resonse and autophagy (PubMed:14578165, PubMed:37415157). Plays a role in virus-triggered induction of IFN-beta and TNF-alpha by mediating the ubiquitination of STING1. Mechanistically, targets STING1 for 'Lys-63'-linked ubiquitination which promotes the interaction of STING1 with TBK1. Regulates bacterial clearance and promotes autophagy in Mycobacterium tuberculosis-infected macrophages (By similarity). Negatively regulates TLR3/4-mediated innate immune and inflammatory response by triggering the autophagic degradation of TICAM1 in an E3 activity-independent manner (PubMed:28898289). Plays an essential role in oxidative stress induced cell death by inducing loss of transmembrane potential and enhancing mitochondrial reactive oxygen species (ROS) production during oxidative stress conditions. Ubiquitinates XIAP and targets it for proteasomal degradation. Ubiquitinates DTNBP1 (dysbindin) and promotes its degradation. May ubiquitinate BBS2 (By similarity). Ubiquitinates PIAS4/PIASY and promotes its degradation in keratinocytes treated with UVB and TNF-alpha (By similarity). Also acts as a regulator of autophagy by mediating formation of unanchored 'Lys-63'-linked polyubiquitin chains that activate ULK1: interaction with AMBRA1 is required for ULK1 activation. Positively regulates dendritic branching by promoting ubiquitination and subsequent degradation of the epigenetic factor CDYL (By similarity). {ECO:0000250|UniProtKB:Q13049, ECO:0000269|PubMed:14578165, ECO:0000269|PubMed:16816390, ECO:0000269|PubMed:28898289, ECO:0000269|PubMed:37415157}.
Molecular Weight:	72.1 kDa
UniProt:	Q8CH72
Pathways:	Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months